



CITY OF CHANDLER, ARIZONA
PASEO VISTA RETAINING WALL RENOVATION
CITY PROJECT NO. PR2101.401

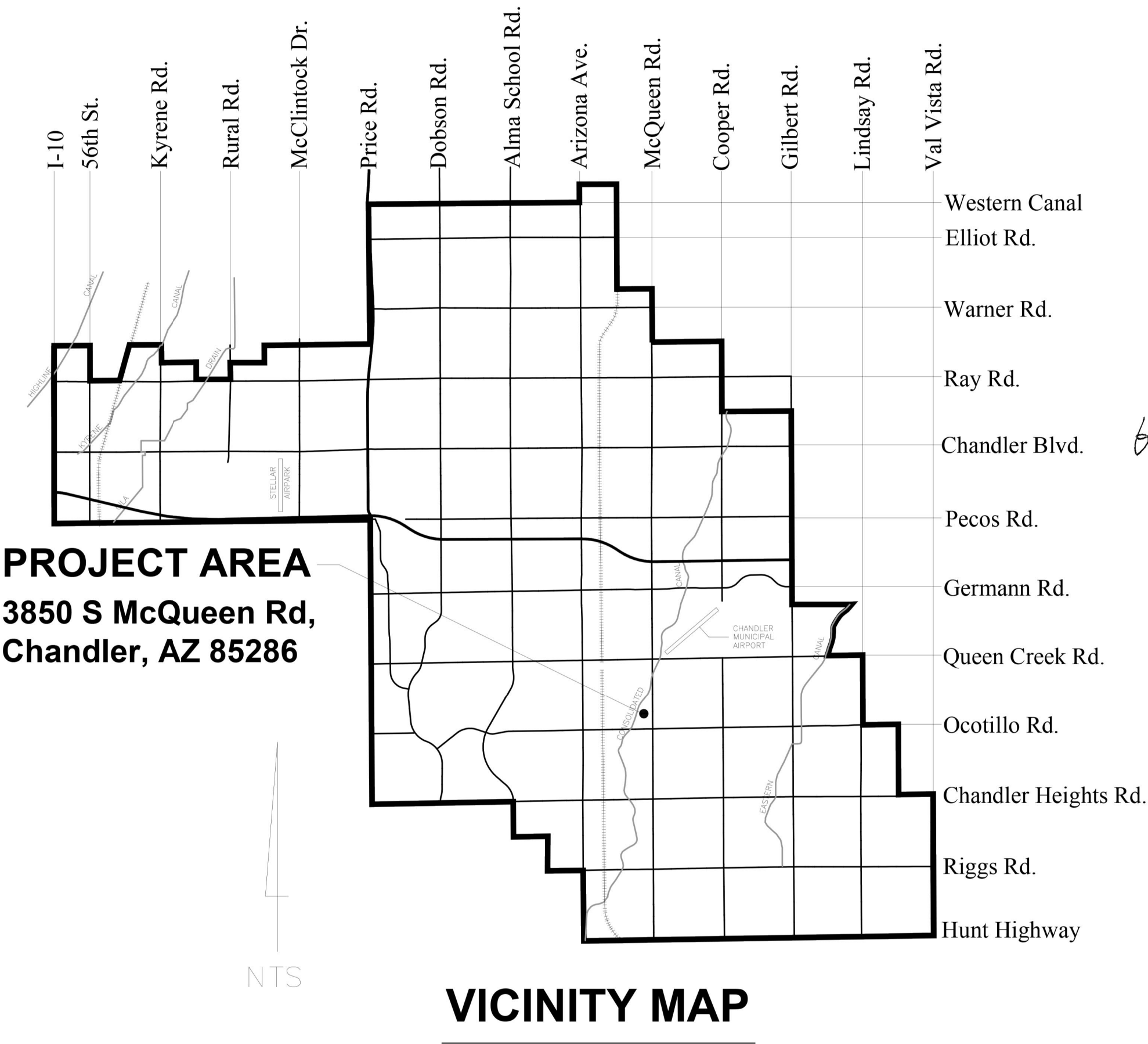
MAYOR
KEVIN HARTKE
VICE MAYOR
MARK STEWART

COUNCIL
CHRISTINE ELLIS
OD HARRIS
RENÉ LOPEZ
MATT ORLANDO
TERRY ROE

COMMUNITY SERVICES
DEPARTMENT
175 SOUTH ARIZONA AVENUE, 4TH FLOOR
CHANDLER, AZ 85225
PHONE NO. (480) 782 - 2660



4685 South Ash Avenue, Suite H-4
Tempe, Arizona 85282
CONTACT:
John J. Griffin, PLA, ASLA
(623) 244-3611 jgriffin@epgllc.co



APPROVED:

for Andy
PUBLIC WORKS & UTILITIES DIRECTOR 8/4/2021
DATE

Andy
CITY ENGINEER 8/4/2021
DATE

BUILDING OFFICIAL
DATE

AS-BUILT CERTIFICATION:
I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION AS SHOWN HEREON WAS
MADE UNDER MY SUPERVISION, OR AS NOTED, AND IS CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF.

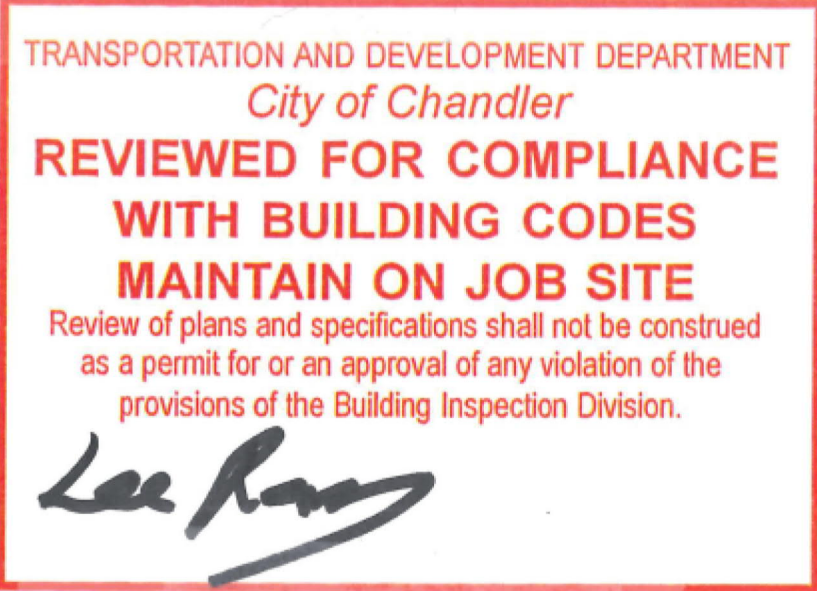
REGISTERED LAND SURVEYOR SIGNATURE PRINTED NAME DATE

REGISTRATION NO. EXPIRATION DATE

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON SATISFIES
THE INTENT OF THE DESIGN.

REGISTERED CIVIL ENGINEER SIGNATURE PRINTED NAME DATE

REGISTRATION NO. EXPIRATION DATE



06/07/2021 13:31:35 PM
#[BLD21-2029]

I HEREBY CERTIFY THAT NO TREE OR BOULDER IS DESIGNED CLOSER THAN SIX (6)
FEET TO THE FACE OF PUBLIC STREET CURB.

John J. Griffin
REGISTERED LANDSCAPE ARCHITECT 7/20/21
DATE

BENCHMARK:

ORIGINAL BENCHMARKS FROM DESIGN DATED 2009:

SECTION 14, TOWNSHIP 2S, RANGE 5E

SET 3" BRASS CAP IN CONCRETE, 215' EAST OF INTERSECTION OF MCQUEEN RD AND
OCOTILLO RD; 4' NORTH OF BACK OF CURB. (NORTHING 817878.803, EASTING 728629.500)

ELEVATION = 1227.92

BM 47A - 3" BRASS CAP IN CONCRETE

N: 17879.49

E: 28630.03

Z: 1227.92

COMBINED SCALE FACTOR: 1.00015316

NORTHING: -800,000

EASTING: -700,000

(PROJECT NORTHING +8000,000)/COMBINED SCALE FACTOR = STATE PLANE NORTHING

(PROJECT EASTING +700,000)/COMBINED SCALE FACTOR = STATE PLANE EASTING

ABBREVIATIONS

A.D.A.	AMERICANS WITH DISABILITIES ACT
ADJ.	ADJACENT
APPROX.	APPROXIMATELY
AT SIM.	AT SIMILAR CONDITION
C.I.P.	CAST-IN-PLACE
CONC.	CONCRETE
CONT.	CONTINUOUS
D.G.	DECOMPOSED GRANITE
E.J.	EXPANSION JOINT
EQ.	EQUAL
HORIZ.	HORIZONTAL
MAX.	MAXIMUM
MIN.	MINIMUM
NTS	NOT TO SCALE
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
SCH.	SCHEDULE
SIM.	SIMILAR CONDITION
SPECS.	SPECIFICATIONS
TYP.	TYPICAL CONDITION

SHEET INDEX

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S1	GENERAL STRUCTURAL NOTES & DETAILS	6



06/15/2021 09:40:18 AM
#[BLD21-2029]

C.O.C. LOG NO. BLD21-2029
STATUS: ISSUED FOR CONSTRUCTION

SHEET 1 OF 6

REV.	NO.	DATE	DRWN	CHKD	REMARKS

PASEO VISTA RETAINING WALL RENOVATION CITY PROJECT NO. PR2102.401

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST CURRENT ADOPTED MAG SPECIFICATIONS AND STANDARD DETAILS AS SUPPLEMENTED BY THE CITY OF CHANDLER.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
3. THE CITY ENGINEER'S OFFICE SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION (480-782-3320).
4. PROJECT ELEVATIONS ARE BASED UPON NAVD 88 DATUM. THE FOLLOWING BENCHMARK WAS UTILIZED:

NOTE: BENCHMARK DATA PER ORIGINAL PASEO VISTA RECREATION AREA PLANS PREPARED BY DIBBLE ENGINEERING. CONTRACTOR TO VERIFY ELEVATIONS AND BASIS OF BEARING PRIOR TO BEGINNING WORK.

-

1. ALL SITE IMPROVEMENTS, INCLUDING LANDSCAPE AND SITE CLEANUP, MUST BE COMPLETED PRIOR TO CERTIFICATE OF OCCUPANCY FOR ANY BUILDING WITHIN A PHASE.
2. ALL ROOF MOUNTED MECHANICAL EQUIPMENT SHALL BE FULLY SCREENED BY PARAPET WALLS EQUAL TO, OR GREATER THAN, THE HIGHEST POINT ON THE MECHANICAL EQUIPMENT.
3. SOLID MASONRY WALLS AND GATES EQUAL TO, OR GREATER THAN, THE HIGHEST POINT ON THE MECHANICAL EQUIPMENT SHALL SCREEN ALL GROUND MOUNTED MECHANICAL EQUIPMENT.
4. ALL EXTERNAL LIGHTING SHALL BE LOCATED AND DESIGNED TO PREVENT LIGHTS FROM BEING DIRECTED OFF OF THE PROPERTY UPON WHICH THE LIGHTING IS LOCATED.
5. THE FIRE DEPARTMENT DOUBLE CHECK ASSEMBLY SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR.
6. SIGNS REQUIRE SEPARATE PERMIT.
7. THERE SHALL BE NO OBSTRUCTION OF SITE SIGNAGE BY LANDSCAPE PLANT MATERIAL, AND THAT SUCH MUST BE RELOCATED/CORRECTED BEFORE THE FIELD INSPECTION WILL ACCEPT/PASS THE SIGN IN THE FIELD OR ISSUE A CERTIFICATE OF OCCUPANCY FOR A PROJECT.
8. ALL TRANSFORMER BOXES, METER PANELS AND ELECTRIC EQUIPMENT, BACKFLOW DEVICES OR ANY OTHER UTILITY EQUIPMENT NOT ABLE TO BE OR REQUIRED TO BE SCREENED BY LANDSCAPING OR WALLS, SHALL BE PAINTED TO MATCH THE BUILDING COLOR.
9. ALL WALLS OVER 7' IN HEIGHT, SITE LIGHTING, SIGNAGE, RAMADAS AND SHADE STRUCTURES REQUIRE SEPARATE SUBMITTAL AND PERMITS.

CONSTRUCTION

- FIRE DEPARTMENT VEHICLE ACCESS ROADWAYS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. TEMPORARY ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN TWENTY (20) FEET AND AN UNOBSTRUCTED VERTICAL CLEARANCE OF NO LESS THAN FIFTEEN (15) FEET CONSTRUCTED OF SIX (6) INCH COMPACTED AB, GRAVEL OR OTHER APPROVED MATERIALS. NO TRENCHING ACROSS FIRE ACCESS ROADS IS ALLOWED.
- PERMANENT FIRE VEHICLE ACCESS ROADWAYS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN TWENTY (2) FEET EXCLUSIVE OF SHOULDERS, EXCEPT FOR APPROVED SECURITY GATES IN ACCORDANCE WITH SECTION 503.6 OF THE 2018 IFC, AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN FIFTEEN (15) FEET CONSTRUCTED OF AN ALL-WEATHER SURFACE. IF HYDRANTS ARE PLACED IN THE ACCESS ROAD, THE WIDTH SHALL BE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN TWENTY-SIX (26) FEET CONSTRUCTED OF AN ALL-WEATHER SURFACE.
- APPROVED FIRE FLOW AND WATER SUPPLY SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. PRIOR TO ANY COMBUSTIBLES BEING BROUGHT ON SITE, AN APPROVED WATER SUPPLY SHALL BE AVAILABLE.

PLANS; BUILDING & SYSTEMS

- ANY WORK (INSPECTION, TESTING OR MAINTAINING) CONDUCTED ON FIRE PROTECTION SYSTEMS SHALL BE DONE BY A CONTRACTOR LICENSED TO PERFORM SUCH WORK BY THE STATE OF ARIZONA, AND CURRENTLY PERMITTED BY THE CHANDLER FIRE DEPARTMENT (SEE FD FORM NO. 707 - FIRE PROTECTION CONTRACTOR PERMIT).
- ALL CONSTRUCTION, MODIFICATIONS OR INSTALLATION SHALL COMPLY WITH NATIONALLY RECOGNIZED CODES AND STANDARDS, AND THE CITY CODES.
- FIRE SPRINKLER SYSTEM (S) SHALL BE INSTALLED IN ACCORDANCE WITH THE ADOPTED FIRE CODE, NFPA 13, AND CITY OF CHANDLER CODES. FIRE ALARM SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ADOPTED FIRE CODE, NFPA 72 AND CITY OF CHANDLER CODES.
- STANDPIPE & HOSE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ADOPTED FIRE CODE, NFPA 14 AND CITY OF CHANDLER CODES.
- WET CHEMICAL EXTINGUISHING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ADOPTED FIRE CODE, NFPA 17A AND CITY OF CHANDLER CODES.
- FIRE DEPARTMENT CONNECTIONS (FDC'S) INSTALLED IN ACCORDANCE WITH THE ADOPTED FIRE CODE, BUILDING CODE AND NFPA 13 FIRE SPRINKLER SYSTEMS SHALL BE TWO AND A HALF (2½) INCH FEMALE SWIVELS WITH NATIONAL STANDARD THREADS (NST). NO FDC SHALL BE LOCATED ON THE BUILDINGS (EXCEPT AS APPROVED BY THE FIRE MARSHAL OR IN THE DOWNTOWN DEVELOPMENT AREA PER FD144), WITH RESPECT TO HYDRANTS, DRIVEWAYS, BUILDINGS AND LANDSCAPING, FDC'S SHALL BE SO LOCATED THAT FIRE APPARATUS AND HOSE CONNECTED TO SUPPLY THE SYSTEM WILL NOT OBSTRUCT ACCESS TO THE BUILDINGS FOR OTHER FIRE APPARATUS. THE LOCATION OF FDC'S SHALL BE LOCATED ON PRIVATE PROPERTY SIX (6) TO TEN (10) FEET BEHIND THE CURB (OF STREET) AT A PERMANENT ENTRANCE TO THE SITE OR AS OTHERWISE APPROVED BY THE FIRE MARSHAL.
- ALL FIRE DEPARTMENT HOSE CONNECTIONS AND STANDPIPE HOSE CONNECTIONS FOR FIRE DEPARTMENT USE SHALL BE TWO AND A HALF (2½) INCH NATIONAL STANDARD THREADS. NO HOSE SHALL BE ATTACHED TO THE FIRE DEPARTMENT HOSE STATIONS.
- RESIDENTIAL (MULTI-FAMILY) - ALL PRIVATE SHARED DOMESTIC AND RESIDENTIAL FIRE LINE MAINS SHALL HAVE A REDUCED PRESSURE BACKFLOW INSTALLED PER CEC DETAIL C-315.
- FDC'S FOR NFPA 13R SPRINKLER SYSTEMS SHALL BE SINGLE FEMALE SWIVELS WITH ONE AND A HALF (1½) NATIONAL STANDARD THREADS.
- FIRE ALARM ROOM(S) & FIRE SPRINKLER ROOM(S) SHALL BE SIGNED IN ACCORDANCE WITH FD106 AND ZONE MAPS FOR FIRE ALARMS & SPRINKLER SYSTEMS SHALL BE PLACED AT EACH LOCATION (I.E. PANEL AND RISER).

1. ALL TREES WITHIN VEHICULAR SIGHT DISTANCE/VISIBILITY CLEAR ZONES SHALL HAVE A VERTICAL CANOPY CLEARANCE/CLEAR TRUNK TO 6' ABOVE THE NEAREST CURB.
2. TREES MUST MAINTAIN A MINIMUM 6' SETBACK FROM THE FACE OF CURB (IN AREAS EFFECTED BY FUTURE TURN LANES, TREES MAY BE PLACED NO LESS THAN 4' FROM FACE OF CURB.
3. THE LANDSCAPE WILL BE MAINTAINED BY THE CONTRACTOR FOR A PERIOD OF NINETY (90) DAYS FOLLOWING A PRELIMINARY INSPECTION AND ACCEPTANCE BY THE CITY. IF NOT HEALTHY AT THE END OF THE MAINTENANCE PERIOD, THE MAINTENANCE SHALL BE CONTINUED UNTIL THE PLANT MATERIAL IS APPROVED BY THE CITY.
4. CONTRACTOR MUST SUBMIT A DECOMPOSED GRANITE SAMPLE TO THE CITY LANDSCAPE COMPLIANCE COORDINATOR PRIOR TO ORDERING.
5. ALL ROCK GROUNDCOVER AREAS SHALL BE SPRAYED WITH PRE-EMERGENT HERBICIDE BY A LICENSED APPLICATOR AS PART OF INSTALLATION AS FOLLOWS (A MINIMUM OF THREE (3) APPLICATIONS ARE REQUIRED):
 - PRIOR TO THE APPLICATION OF GRANITE: 1/2 GALLON PER ACRE
 - AFTER GRANITE APPLICATION: 1/2 GALLON PER ACRE
 - PRIOR TO FINAL ACCEPTANCE: 1 GALLON PER ACRE
6. THE CITY SHALL BE FURNISHED WITH WRITTEN DOCUMENTATION OF THE SCHEDULE OF APPLICATION DATES.
7. INSPECTIONS
8. THE CITY'S INDIVIDUAL USER DEPARTMENT WILL INSPECT AND APPROVE THE WORK AT THE FOLLOWING STAGES OF COMPLETION, ANY WORK COMPLETED WITHOUT THESE INSPECTIONS MUST BE REMOVED PRIOR TO ACCEPTANCE OF THAT PHASE OF WORK. THESE STAGES ARE:
 - A. COMPLETION OF ALL TRENCHING AND INSTALLATION OF ALL MAIN LINES PRIOR TO BACK FILLING, INCLUDING THE VACUUM BREAKER, QUICK COUPLERS, ELECTRIC VALVES AND ANY ISOLATION VALVES. THE MAIN LINE SHALL BE PRESSURE TESTED FOR THIRTY (30) MINUTES AT THIS INSPECTION.
 - B. COMPLETION OF INSTALLATION OF ALL CONTROL WIRES PRIOR TO BACKFILLING.
 - C. INSTALLATION OF ALL LATERAL VALVES, LINES, AND HEADS PRIOR TO BACKFILLING.
9. PRIOR TO ANY CONSTRUCTION OR UTILITY WORK STARTING WITHIN A CITY RIGHT-OF-WAY, WHICH WILL AFFECT EXISTING CITY-OWNED AND MAINTAINED LANDSCAPING OR IRRIGATION SYSTEMS, THERE WILL BE A MEETING ON SITE TO SHOW THAT THE EXISTING SYSTEMS OR LANDSCAPED AREAS ARE IN PROPER REPAIR AND FUNCTIONING. AT THE COMPLETION OF THE CONSTRUCTION WORK THERE WILL BE ANOTHER MEETING AND INSPECTION ON SITE. THE SAME AREAS AND SYSTEMS WILL AGAIN BE REVIEWED.
10. ANY DAMAGE TO THE LANDSCAPING OR TO THE IRRIGATION SYSTEM WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR UTILITY COMPANY AND MUST BE REPAIRED TO THE SATISFACTION OF THE CITY WITHIN FIVE (5) WORKING DAYS. IF THIS WORK IS NOT COMPLETED WITHIN THE ALLOTTED TIME, THE CITY WILL MAKE THE REPAIRS OR CORRECTIONS AND MONEY WILL BE DEDUCTED OR BILLED TO THE GENERAL CONTRACTOR ON THE PROJECT. THE INDIVIDUALS WHICH SHOULD BE REPRESENTED AT THESE ON-SITE MEETINGS SHALL BE: A REPRESENTATIVE FROM THE CONTRACTOR, A REPRESENTATIVE FROM THE ENGINEERING FIRM OR CITY RESPONSIBLE FOR THE CONSTRUCTION INSPECTION AND A REPRESENTATIVE FROM THE CITY STREET DEPARTMENT.

1. FACILITIES ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INITIATION OF CONSTRUCTION.
2. AT LEAST TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.

OCOTILLO ROAD

PLAYGROUND RETAINING WALL

CONSOLIDATED CANAL

RETAINING WALL SOUTH OF ARCHERY RANGE

MCQUEEN ROAD

NOT TO SCALE

NORTH

4685 S. Ash Ave., Suite H-4
Tempe, AZ 85282

Project:

3850 S McQueen Road
Chandler, AZ 85286

Client:



650 East Ryan Road
Chandler, Arizona 85286

CONTACT:
Hafiz Noor
Project Manager
Public Works & Utilities Department
215 E Buffalo Street, Suite 101
Chandler, AZ 85244-4008
PHONE: (480) 782-3324
EMAIL: hafiz.noor@chandleraz.gov

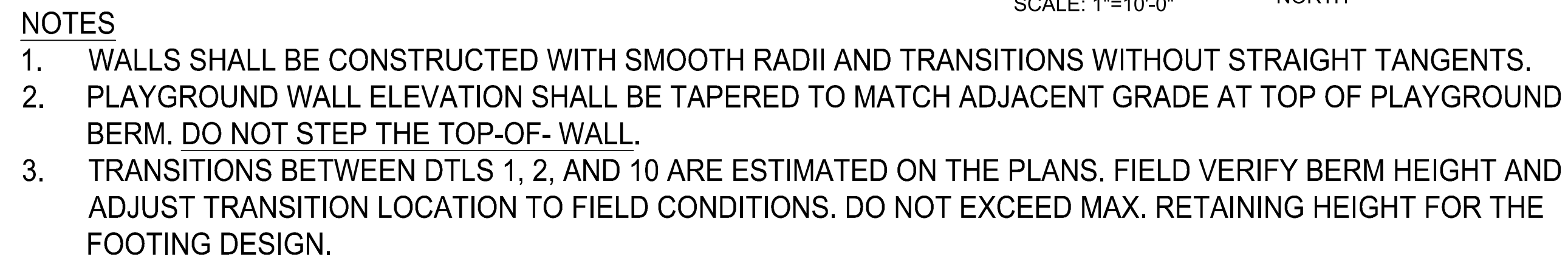
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JULY 20, 2021

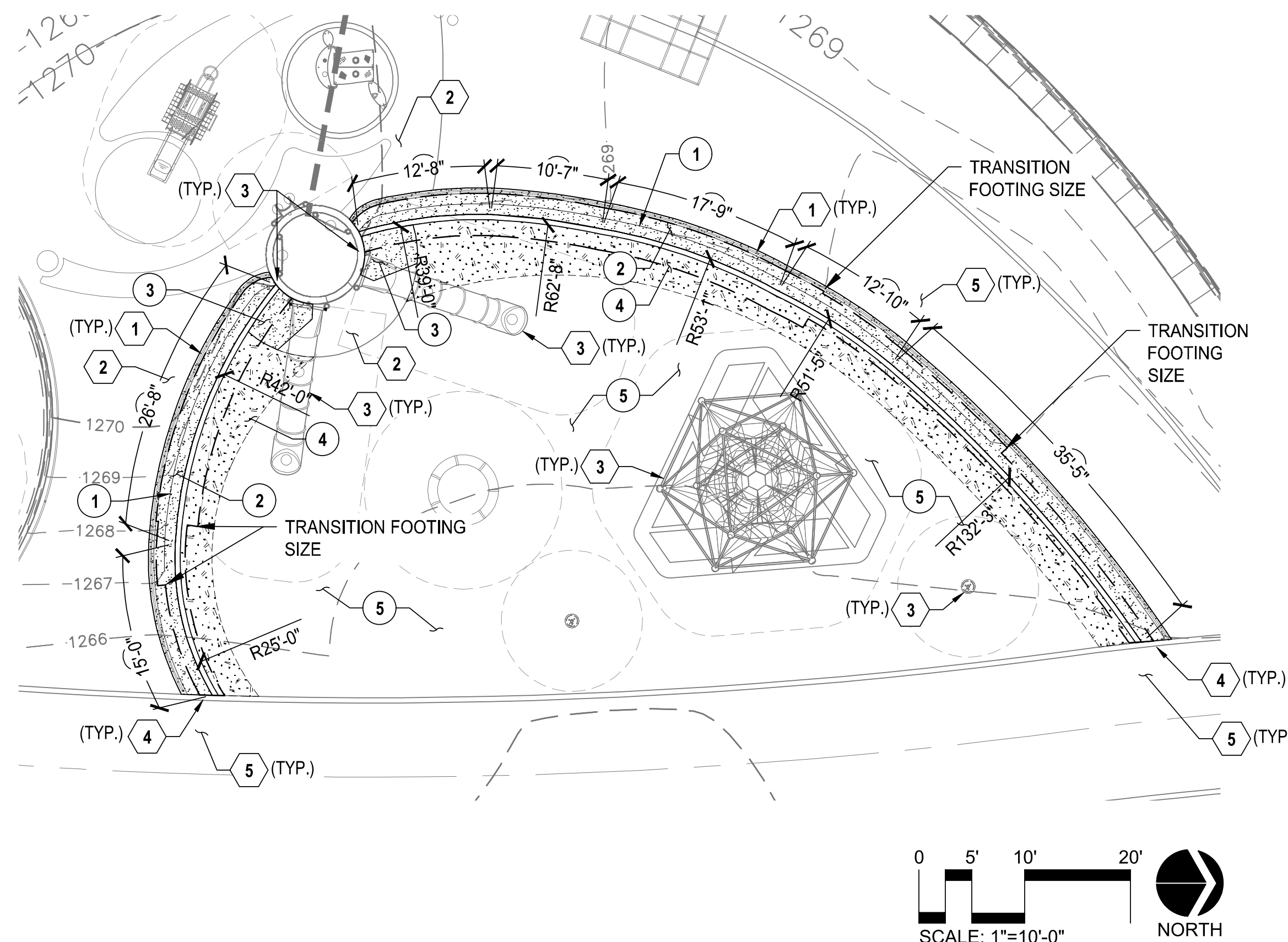
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	PR2101.401
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	G2
	Sheet No.
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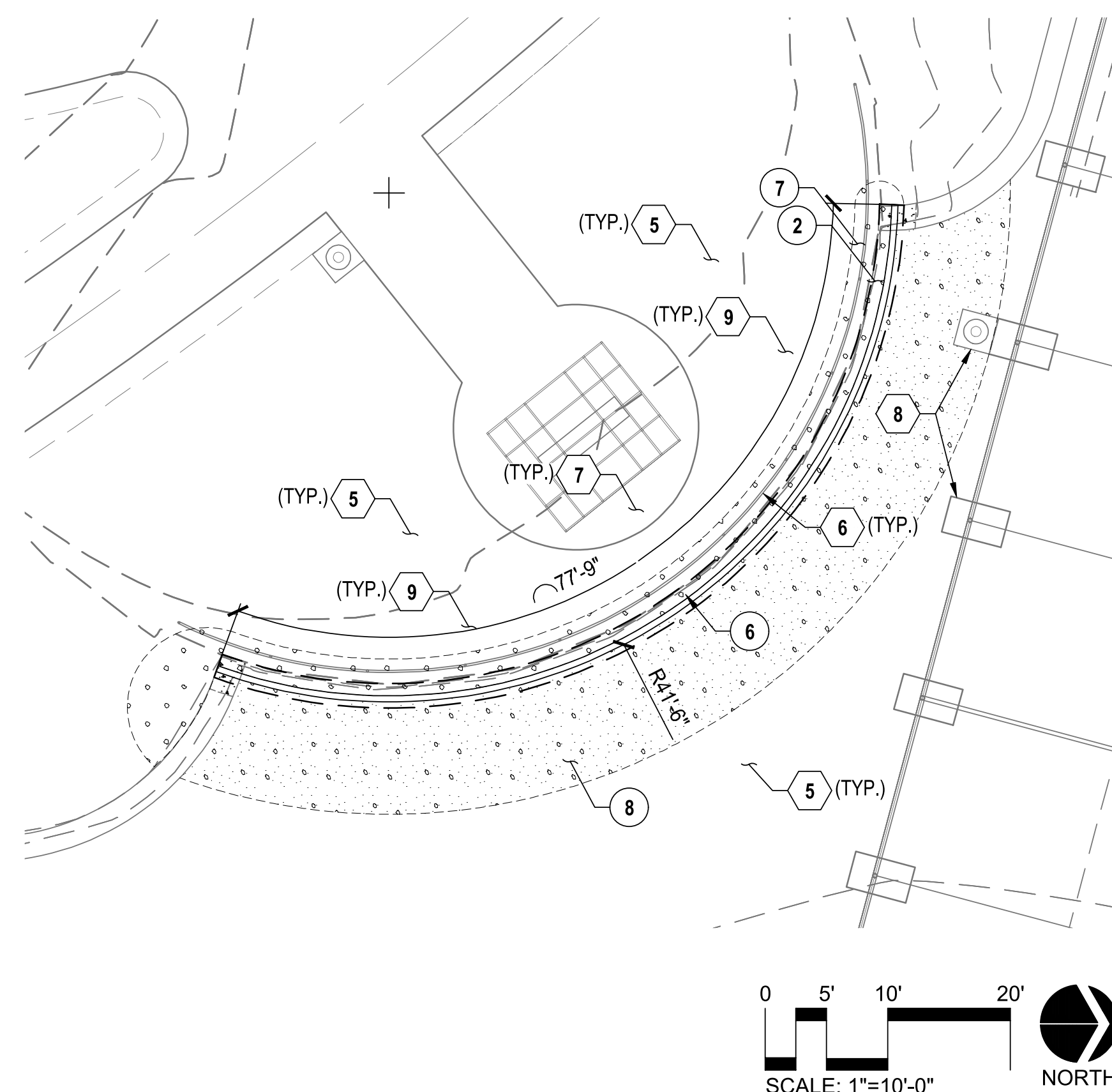
DEMO PLAN



LAYOUT PLAN



DEMO PLAN



PROTECT/ EXISTING

- 1 PROTECT EXISTING GUARDRAIL AND FOOTING
- 2 PROTECT EXISTING EPDM RESILIENT SURFACING
- 3 PROTECT EXISTING PLAY EQUIPMENT
- 4 PROTECT EXISTING CONCRETE HEADER
- 5 PROTECT EXISTING DECOMPOSED GRANITE
- 6 PROTECT EXISTING HAND RAIL AND FOOTING
- 7 PROTECT EXISTING SURFACING
- 8 PROTECT EXISTING CONCRETE STRUCTURES AND FURNISHINGS
- 9 PROTECT EXISTING LANDSCAPE TREES AND SHRUBS

☐ REMOVE ☐

- 1 REMOVE AND DISPOSE OF EXISTING TIRES, REBAR, FOOTING, AND FILL MATERIAL
- 2 CUT EPDM TO A CLEAN EDGE AT TIRES
- 3 REMOVE AND DISPOSE OF ENGINEERED WOOD FIBER (3' OFF TOE OF TIRES)
- 4 SAWCUT RUBBLE CONCRETE WALL TO THE CLEAN EDGE TO RECEIVE CIP CONC. WALL; REMOVE AND DISPOSE OF WASTE
- 5 REMOVE AND DISPOSE OF EXISTING CORRUGATED STEEL RETAINING WALL. ABANDON FRAME AND FOOTING IN PLACE

○ CONSTRUCT ○

- ① CONCRETE RETAINING WALL AT PLAYGROUND (5', 3', & 2' RETAINING) PER DTLS 1, 2, & 10/DT1
- ② PROVIDE, PLACE AND COMPACT BACKFILL PER MAG STD SPEC. SECTION 211.
- ③ INSTALL EPDM INCLUDING BASE AND CUSHION LAYER WHERE SHOWN ON PLANS (COLOR: FOREST GREEN), SEE DTLS 4-6/DT1
- ④ REPLACE ENGINEERED WOOD FIBER MULCH WHERE REMOVED
- ⑤ ADD 6" OF ENGINEERED WOOD FIBER MULCH REFRESH TO THE REST OF THE PLAY AREA, SEE DTL 3/DT1
- ⑥ 3' RETAINING WALL AT ARCHERY RANGE PER DTL 9/DT1
- ⑦ 1/2" MINUS DECOMPOSED GRANITE, COLOR APACHE BROWN BY KALAMAZOO MATERIALS, INC. SEE DTL 8/DT1
- ⑧ 1/4" MINUS PLAZA DECOMPOSED GRANITE, COLOR APACHE BROWN BY KALAMAZOO MATERIALS, INC. (10' OFF WALL EDGE); SEE DTL 7/DT1

NOTE:

1. MATCH EXISTING D.G. ON SITE. THE ABOVE COLORS ARE PER RECORD DRAWINGS.
2. PROVIDE D.G. SAMPLES FOR OWNER APPROVAL PRIOR TO FULL PURCHASE.



A Terracon
COMPANY

4685 S. Ash Ave., Suite H-4
Tempe, AZ 85282

CONTACT:
John Griffin, PLA, ASLA
PHONE: (623) 244-3611
EMAIL: jgriffin@epgllc.co

Project:

PASEO VISTA
RECREATION AREA
RETAINING WALL
REMOVAL

3850 S McQueen Road
Chandler, AZ 85286

Client: _____



City of Chandler
Parks Department

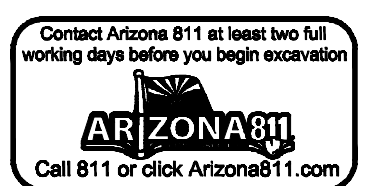
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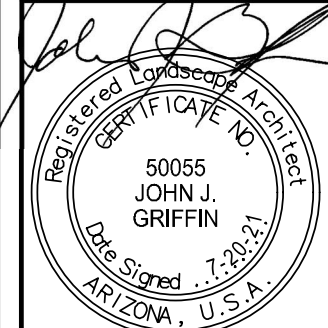


Revisions:

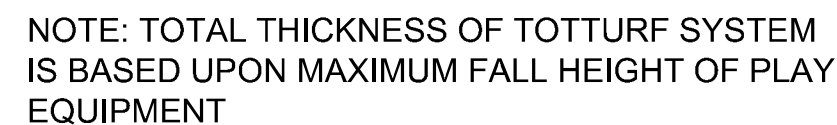
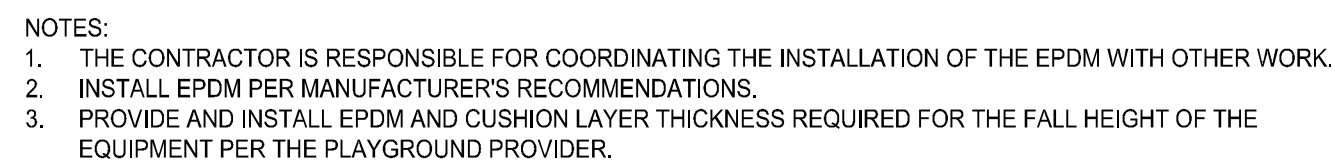
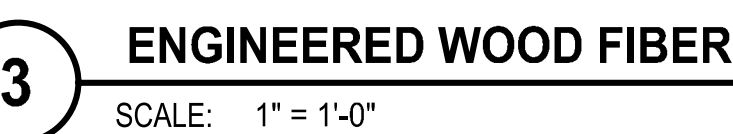
No.	Revision	Date

Drawing Title:

DEMOLITION AND LAYOUT PLANS

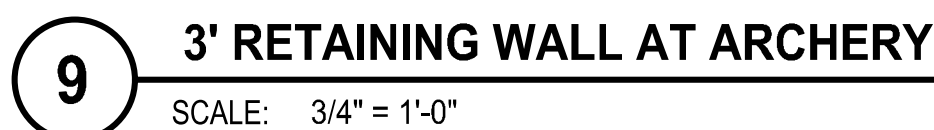
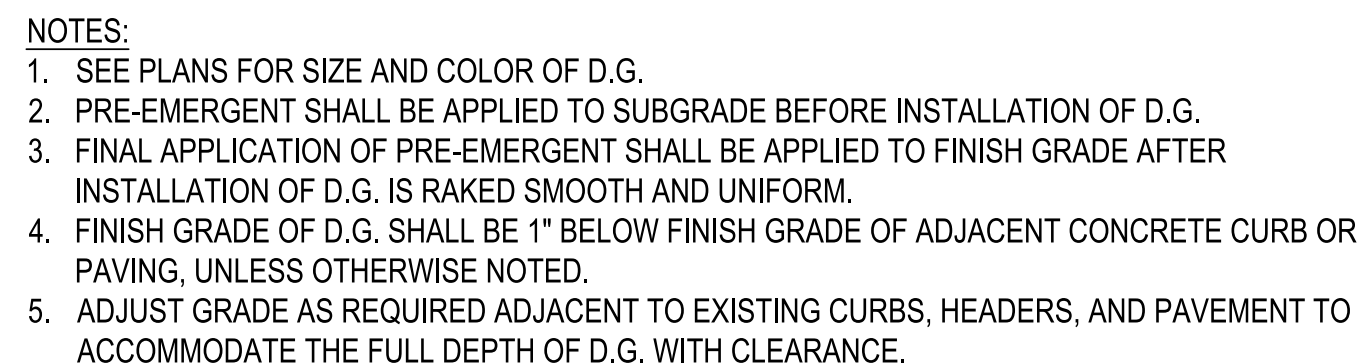


Project No.	PR2101.401
Drawing No.	LM1
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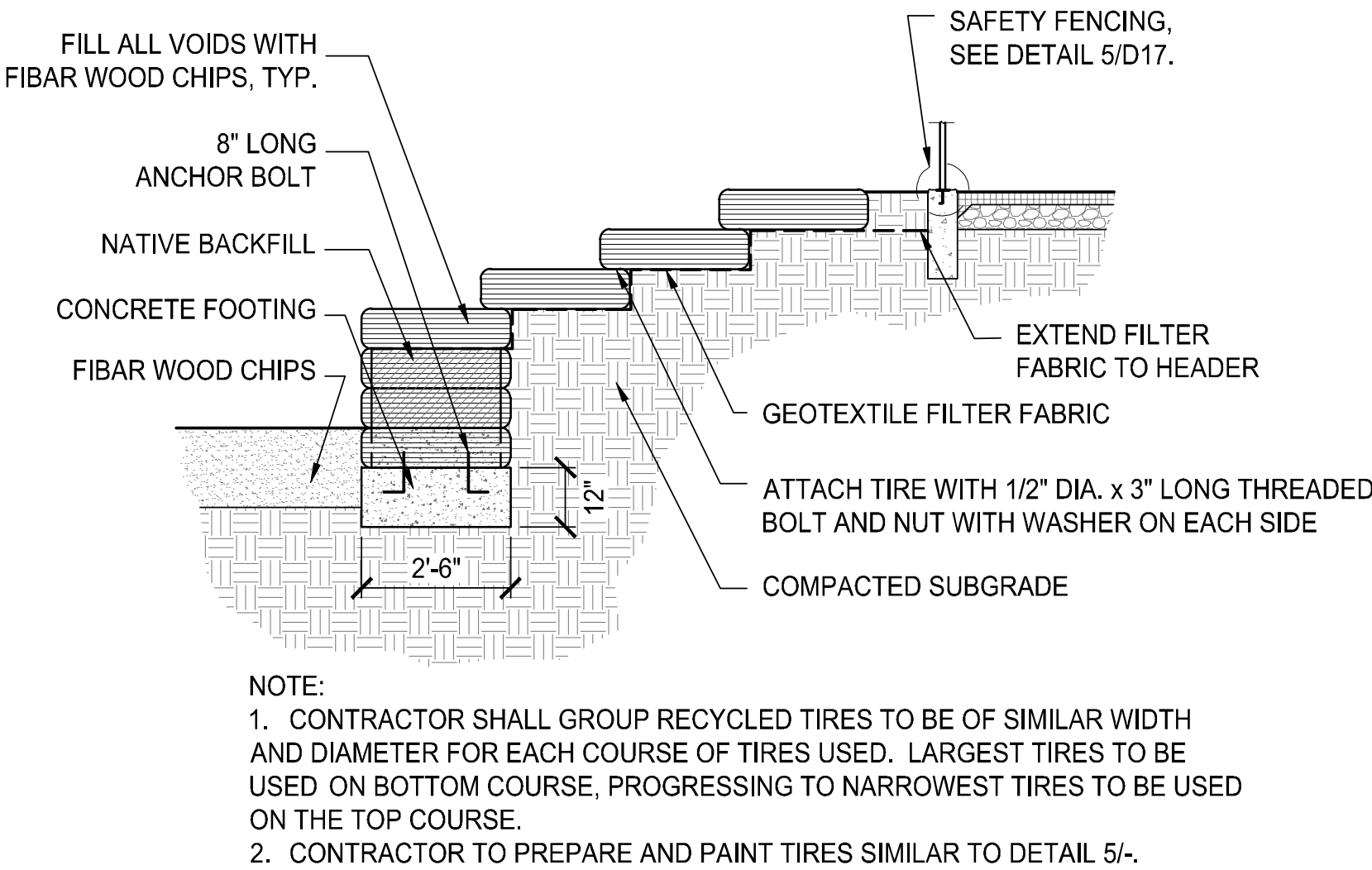
NOTES:

1. * REQUIRES ASPHALT OR CONCRETE SUBBASE.
COMPACTED AGGREGATE ACCEPTABLE FOR ALL OTHER SYSTEMS PER SPECIFICATION.
2. REFER TO PLANS AND PLAY EQUIPMENT MANUFACTURE'S SPECIFICATIONS FOR EQUIPMENT CRITICAL FALL HEIGHTS.
3. IN AREAS WITHOUT PLAY EQUIPMENT, INSTALL 2" EPDM UNLESS CONCRETE BASE IS PROVIDED PER DETAILS.
4. INSTALL EPDM PER MANUFACTURE'S RECOMMENDATIONS.

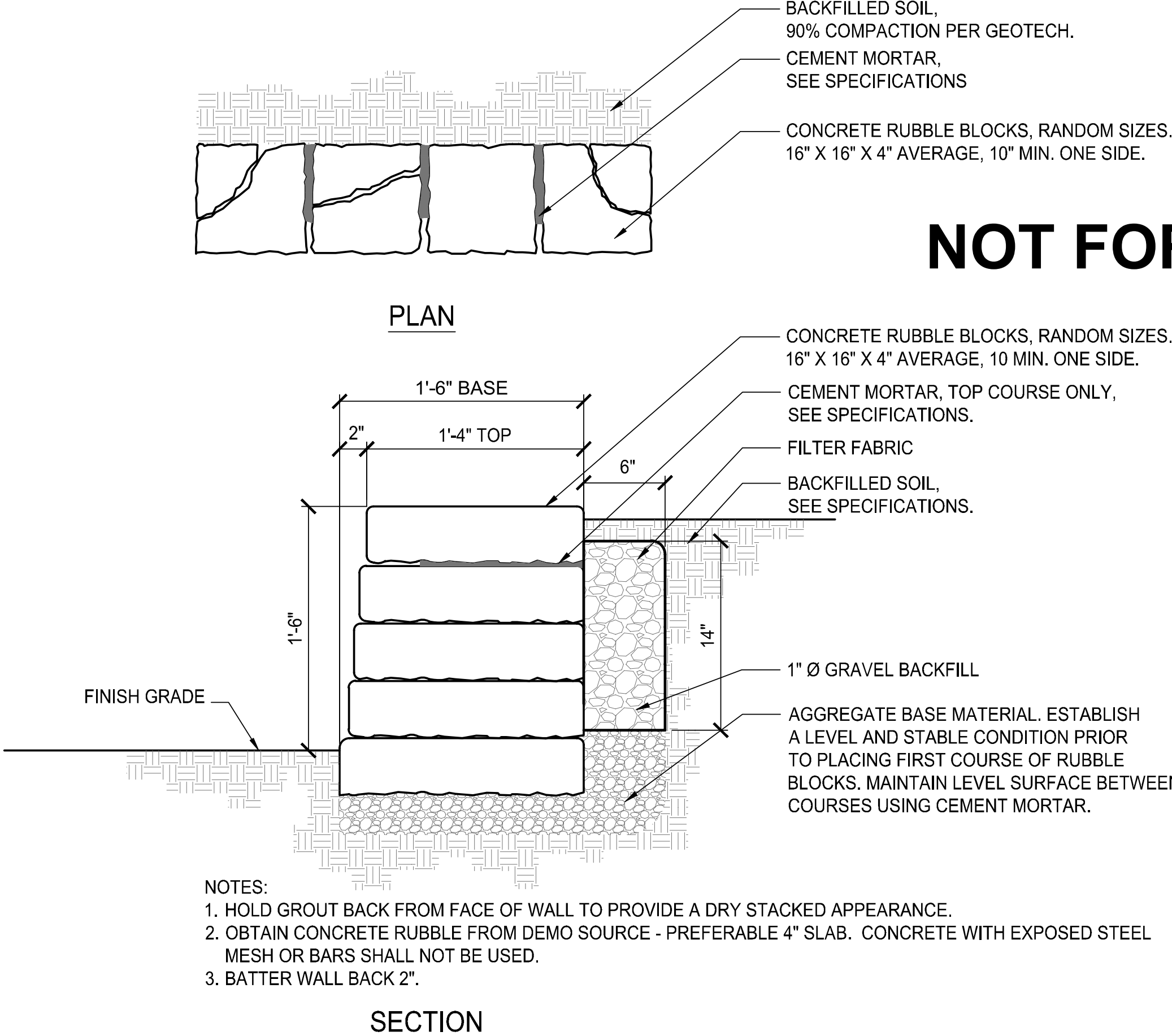


DETAILS FROM EXISTING WALLS FOR REFERENCE ONLY, NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION

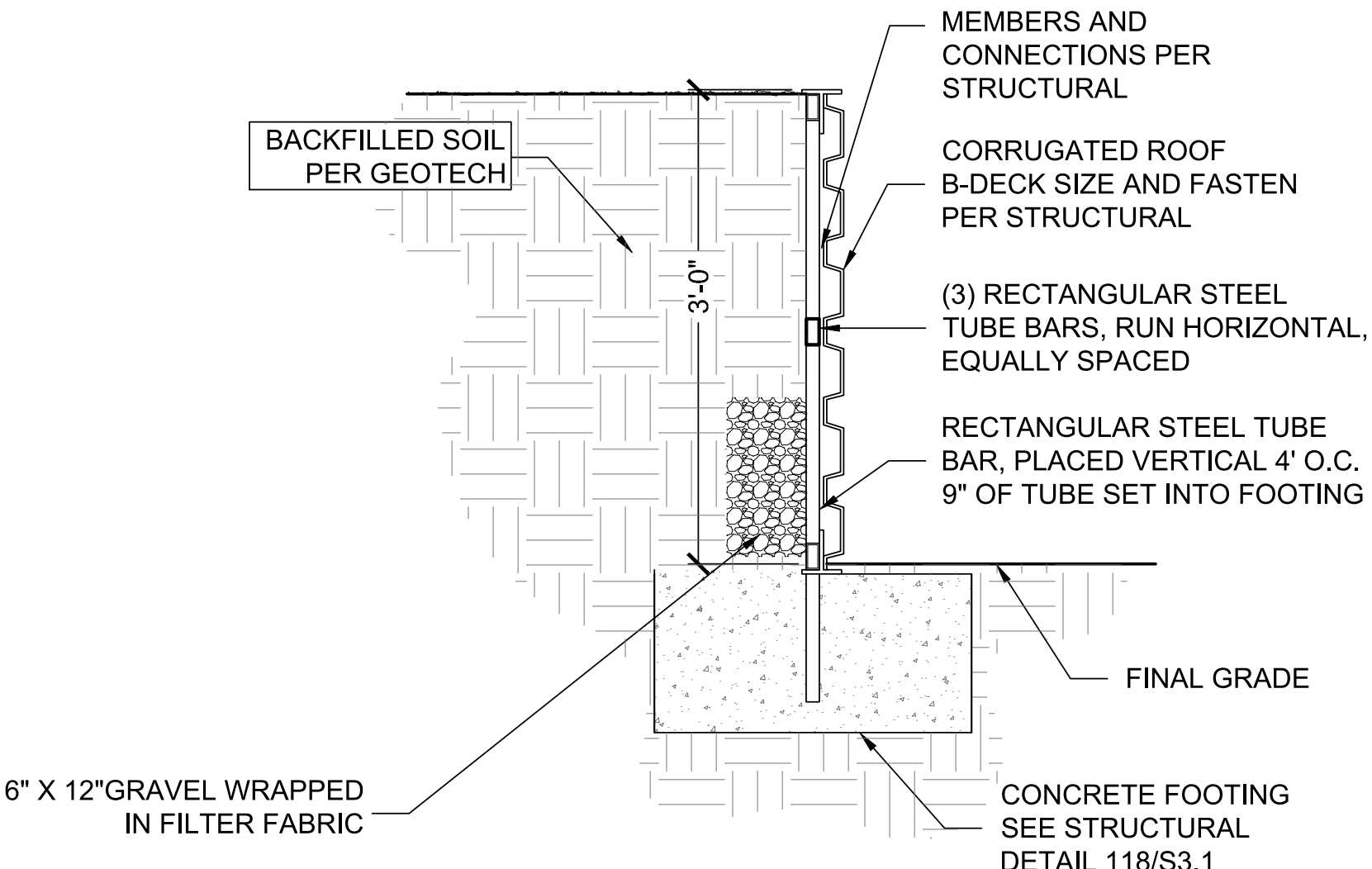


1 PLAYGROUND TIRE RETAINING WALL SECTION
SCALE: 3/8" = 1'-0"



2 CONCRETE RUBBLE PLANTER WALL
SCALE: 1-1/2" = 1'-0"

NOT FOR CONSTRUCTION



3 CORRUGATED STEEL RETAINING WALL
SCALE: 1" = 1'-0"

DETAILS FROM EXISTING WALLS FOR REFERENCE ONLY, NOT FOR CONSTRUCTION

Revisions:		
No.	Revision	Date

ABBREVIATIONS

ABBREV1

NOTE: ABBREVIATIONS MAY OR MAY NOT HAVE PERIODS, BUT SHALL BE READ AS SAME.

A.B.	ANCHOR BOLT
A.B.C.	AGGREGATE BASE COURSE
ACI	AMERICAN CONCRETE INSTITUTE
A/C	AIR CONDITIONER
A.T.F.	ARMED CONCRETE FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT.	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCHL	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
A.W.H.S.	AUTOMATIC WELDED HEADED STUDS
A.W.T.S.	AUTOMATIC WELDED THREADED STUDS
BM	BEAM
B.F.F.	BELOW FINISHED FLOOR
BLK	BLOCK
B.O.B.	BOTTOM OF BEAM
B.O.D.	BOTTOM OF DECK
B.O.F.	BOTTOM OF FOOTING
BRG	BEARING
C	CAMBER
C.C.	CENTERLINE TO CENTERLINE
CFS	COLD FORMED STEEL
C.G.	CENTER OF GRAVITY
C.I.P.	CAST IN PLACE
C.L.B.	CENTERLINE
C.L.B.	CENTERLINE OF BEAM
C.L.C.	CENTERLINE OF COLUMN
C.L.F.	CENTERLINE OF FOOTING
C.L.W.	CENTERLINE OF WALL
CLF	CLEAR
CONC	CONCRETE
CONC C.J.	CONCRETE CONTROL JOINT
CONC S.J.	CONCRETE SAWJOINT
C.M.U.	CONCRETE MASONRY UNIT
CONN	CONNECTION
CONT	CONTINUOUS
CRS	CONCRETE REINFORCING STEEL
D.F. (D.F.L.)	DOUGLAS FIR LARCH
DL	DEAD LOAD
DIA	DIAMETER
DN	DOWN
DWG(S)	DRAWING(S)
E.C.	END TO CENTERLINE
E.E.	END TO END
E.O.S.	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EXP. BOLT (E.B.)	EXPANSION BOLT
EXP. JT (E.J.)	EXPANSION JOINT
E.W.	END WAY
F.F.	FINISHED FLOOR
F.O.M.	FACE OF MEMBER
F.O.S.	FACE OF STEEL
F.O.W.	FACE OF WALL
GA	GAGE (UNIT OF MEASUREMENT)
GALV	GALVANIZED
G.S.N.	GENERAL STRUCTURAL NOTES
GLB (GLULAM)	GLUED-LAMINATED BEAM
H.F.	HEM FIR
HORIZ	HORIZONTAL REINFORCING
H.S.	HEADED STUDS
IBC	INTERNATIONAL BUILDING CODE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ICC	INTERNATIONAL CODE COUNCIL
ICF	INSULATED CONCRETE FORMS
I.F.W.	INSIDE FACE OF WALL
I.O.D.	INTERPRETATION OF DRAWINGS
JST	JOIST
K(P)	KIPS POUNDS
KLF	KIPS PER LINEAR FOOT
LBS (#)	POUNDS
LGR	LEDGER
LSG	LIGHT GAGE STEEL
LSSEA	LIGHT GAGE STEEL ENGINEERS ASSOCIATION
L.O.D.	LOCATION OF DETAILS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAS	MASONRY
MAS C.J.	MASONRY CONTROL JOINT
MAX	MAXIMUM
MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
MECH'L	MECHANICAL
MFRD	MANUFACTURED
MFR(S)	MANUFACTURER(S)
MIN	MINIMUM
N/A	NOT APPLICABLE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.F.W.	OUTSIDE FACE OF WALL
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PAT	POWER ACTUATED FASTENER
PDPAT	SIMPSON POWDER DRIVEN PIN
PDP	PIN
PDPT	SIMPSON POWDER DRIVEN PIN WITH TOP HAT (0.300" HEAD)
POI	PRECAST/PRESTRESSED CONCRETE INSTITUTE
P.C.	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
±	PLUS OR MINUS
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
PTI	POST-TENSIONING INSTITUTE
REINF	REINFORCING
SDI	STEEL DECK INSTITUTE
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SJI	STEEL JOIST INSTITUTE
SIM	SIMILAR
SQ	SQUARE
SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
STD	STANDARD
STL	STEEL
TL	TOTAL LOAD
T.O.B.	TOP OF BEAM
T.O.C.T.	TOP OF CONCRETE TOPPING
T.O.D.	TOP OF DECK
T.O.F.	TOP OF FOOTING
T.O.L.	TOP OF LEDGER
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PLATE
T.O.P.C.	TOP OF PRECAST CONCRETE
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TI	TRUSS PLATE INSTITUTE
TP	TYPICAL
T&G	TONGUE AND GROOVE
UBC	UNIFORM BUILDING CODE
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL REINFORCING
WCL	WEST COAST LUMBER ASSOCIATION
WCLB	WEST COAST LUMBER INSPECTION BUREAU
W.F.	WELDED WIRE FABRIC
WMPA	WESTERN WOOD PRODUCTS ASSOCIATION
W/	WITH
W/C	WATER TO CEMENT RATIO
W/O	WITHOUT

GENERAL STRUCTURAL NOTES

BUILDING CODE:

2018 EDITION OF THE INTERNATIONAL BUILDING CODE AND STANDARDS REFERENCED THEREIN, WITH CITY OF CHANDLER AMENDMENTS.

FOUNDATIONS:

GEOTECHNICAL REPORT BY HODGE AND ASSOCIATES, INC. JOB NO. 07164 - ISOLATED AND CONTINUOUS FOOTINGS SHALL BEAR ON CONTROLLED COMPACTED FILL 6" MINIMUM BELOW ADJACENT FINISHED GRADE. PAD GRADE OR EXISTING GRADE AS STATED IN GEOTECHNICAL REPORT. FINISHED GRADE (PAD GRADE) IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE = 1000 PSF. BOTTOM OF FOOTING SHALL BE 6 INCHES MINIMUM ABOVE THE LANDFILL CAP. LANDFILL CAP IS NOT TO BE DISTURBED. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION PRIOR TO COMMENCEMENT OF EARTHWORK. GEOTECHNICAL ENGINEER SHALL INSPECT FOUNDATION EXCAVATIONS PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE:

SPECIFIED 28 DAY COMPRESSIVE STRENGTH F'c:

FOUNDATIONS (DESIGN BASED ON 2,500 PSI)----- 3,000 PSI

GENERAL:

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE ACI STANDARDS. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED UNLESS NOTED OTHERWISE. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. NO OTHER ADMIXTURES PERMITTED WITHOUT APPROVAL. FOR CONCRETE WITHOUT PLASTIZER, MAXIMUM SLUMP 4 1/2". IF PLASTIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL.

FOR REINFORCING INFORMATION, SEE REINFORCING SECTION OF G.S.N., PLANS, SCHEDULES AND DETAILS.

UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE EMBEDMENT OF CONDUITS, PIPES, SLEEVES, ETC. OF ANY MATERIAL SHALL NOT BE PERMITTED WITHIN ANY CONCRETE STRUCTURAL ELEMENT (IE: COLUMNS, BEAMS, ELEVATED SLABS, ETC.) OR STRUCTURAL CONCRETE TOPPINGS WITHOUT THE EXPRESSED APPROVAL OF THE STRUCTURAL ENGINEER.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL BE LIMITED TO 25% OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT. FLY ASH SHALL BE INCLUDED IN THE CALCULATION OF W/C RATIOS SPECIFIED ABOVE. FLY ASH ADDITIVES SHALL NOT BE USED ON SLABS WITH A BURNISHED OR GRISS FINISH.

TEST DATA FOR EACH CONCRETE MIX SHALL BE SUBMITTED FOR REVIEW PER CHAPTER 5 OF ACI 318. REFERENCE FIGURE R6.3 FOR SUBMITTAL REQUIREMENTS AND OPTIONS. CONCRETE MIX DESIGNS THAT ARE SUBMITTED WITHOUT THE APPROPRIATE TEST DATA CANNOT BE REVIEWED.

REINFORCING:

ALL REINFORCING PER CRSI SPECIFICATIONS AND HANDBOOK. ASTM A615 (Fy = 60 KSI / GRADE 60) DEFORMED BARS FOR ALL BARS #5 AND LARGER. ASTM A615 (Fy = 40 KSI / GRADE 40) DEFORMED BARS FOR ALL BARS #4 AND SMALLER. WHERE SHOWN ON DRAWINGS ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706. WELDED WIRE REINFORCING AND WIRE PER ASTM A706, NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF THE STRUCTURAL ENGINEER. REFERENCED ACI STANDARDS AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ----- 3" EXPOSED TO EARTH OR WEATHER #5 AND SMALLER ----- 2" #5 AND LARGER ----- 1 1/2"

WALLS ----- SEE SCHEDULE AND/OR DETAILS ALL OTHER PER REFERENCED EDITION OF ACI 318

ALL REINFORCING SHALL BE CHAIRED OR POSITIONED USING REBAR SPACERS TO ENSURE PROPER CLEARANCES. ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO CONCRETE PLACEMENT. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE/CORROSION BY USE OF A PLASTIC OR CONCRETE CHAIR. DUCT-TAPE COVERED REINFORCING IS NOT AN ACCEPTABLE CHAIR.

ALL DIMENSIONS REFERENCED IN DRAWINGS AS "CLEAR" SHALL BE FROM FACE OF STRUCTURE TO EDGE OF REINFORCING, AND SHALL NOT BE LESS THAN STATED, NOR GREATER THAN "CLEAR" DIMENSION PLUS 3/8". ALL OTHERS SHALL BE PLUS OR MINUS 1/4" TYPICAL UNLESS NOTED OTHERWISE.

FIELD BENDING OR STRAIGHTENING OF DEFORMED BARS SHALL BE LIMITED TO #5 BARS AND SMALLER AND SHALL BE FIELD BENT OR STRAIGHTENED ONLY ONCE. ANY BEND SHALL BE LIMITED TO 90 DEGREES. IF FIELD BENDING OR STRAIGHTENING OF #6 BARS OR LARGER IS REQUIRED, OR IF A SECOND BEND IS REQUIRED FOR #5 BARS AND SMALLER, HEAT SHALL BE APPLIED FOR BENDING OR STRAIGHTENING. CONTRACTOR SHALL SUBMIT PROCEDURE FOR APPLYING HEAT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BENDING OR STRAIGHTENING BARS.

LAP SPLICES IN CONCRETE:

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. DOWEL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

LAP SPLICES, UNLESS NOTED OTHERWISE, SHALL BE CLASS "B" TENSION LAP SPLICES PER REFERENCED EDITION OF ACI 318.

LAPS IN WELDED WIRE REINFORCING SHALL BE MADE SO THAT THE OVERLAP, MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH REINFORCING SHEET, IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.

ANCHORAGE:

POST- INSTALLED ANCHORS:

GENERAL:

ALL POST-INSTALLED ANCHORS SHALL UTILIZE THE EXACT ANCHORAGE SYSTEM SPECIFIED IN THE STRUCTURAL DETAILS. WHERE ANCHORAGE "PER GSN" IS SPECIFIED, SEE BELOW. ANCHORAGE PRODUCTS MAY NOT BE SWAPPED BETWEEN MANUFACTURERS WITHOUT APPROVAL OF THE ENGINEER OR REQUESTS FOR EQUIVALENTS FOR EQUIVALENTS FOR EQUIVALENTS MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO BEING INSTALLED IN THE FIELD.

UNLESS NOTED OTHERWISE POST INSTALLED ANCHORS SHALL NOT BE INSTALLED UNTIL CONCRETE OR MASONRY MATERIAL HAVE REACHED DESIGN STRENGTH AND HAVE BEEN FULLY CURED FOR A MINIMUM OF 21 DAYS.

MANUFACTURER'S INSTALLATION TRAINING AND CERTIFICATE ARE REQUIRED FOR ALL INSTALLERS OF POST-INSTALLED ANCHORS. ALL ANCHORS SHALL BE INSTALLED WITH STEEL WASHERS AT SHORT SLOTTED HOLES IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPI). ALL ANCHORS SHALL BE TIGHTENED/TORQUED AS REQUIRED PER MANUFACTURERS INSTRUCTIONS AND EVALUATION REPORTS.

POST-INSTALLED ANCHORS IN CONCRETE:

ALL EPOXY ADHESIVE TYPE ANCHORAGE FOR CONCRETE INSTALLATION ONLY SHALL BE PER Hilti 'HIT-RE 500 V3' ADHESIVE ANCHORS PER ICC ESR-3814 OR APPROVED ICC EQUIVALENT.

SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 HARD COPY SUBMITTAL SETS OF EACH ITEM TO CTS FOR REVIEW, UNLESS NOTED OTHERWISE IN ARCHITECTURAL SPECIFICATIONS. ELECTRONIC SUBMITTALS ARE ALSO ACCEPTABLE.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.

MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, APPROVALS AND THE COORDINATION OF THE WORK WITH ALL RELATED TRADES AND SUPPLIERS. ANY OF THE FOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

Applies unless noted otherwise on drawings

GENERAL NOTES:

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. EXCEPT WHERE NOTED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE REFERENCED EDITION AND/OR ADDENDUM. ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. BUILDING DIMENSIONS AND ELEVATIONS, WHERE SHOWN, WERE PROVIDED BY THE ARCHITECT AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCIES SHALL BE RESOLVED THROUGH THE ARCHITECT. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WITH THE APPROPRIATE TRADE DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

OPTIONS AND SUBSTITUTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION OR SUBSTITUTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, APPROVALS AND THE COORDINATION OF THE WORK WITH ALL RELATED TRADES AND SUPPLIERS.

SPECIAL INSPECTION - STRUCTURAL ONLY:

FOR SPECIAL STRUCTURAL INSPECTIONS:

CONTACT CARUSO TURLEY SCOTT, INC. AT 480-774-1700 PRIOR TO CONSTRUCTION:

SPECIAL INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STATE REGISTERED STRUCTURAL ENGINEER WHO IS FAMILIAR WITH THE STRUCTURAL DESIGN OF THIS PROJECT. THE SUPERVISING STRUCTURAL ENGINEER SHALL SEAL THE SPECIAL INSPECTION CERTIFICATE.

SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION. "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE BUILDING JURISDICTION INSPECTIONS REQUIRED BY SECTION 110 OF THE INTERNATIONAL BUILDING CODE. SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 FOR THE FOLLOWING:

CONCRETE CONSTRUCTION:

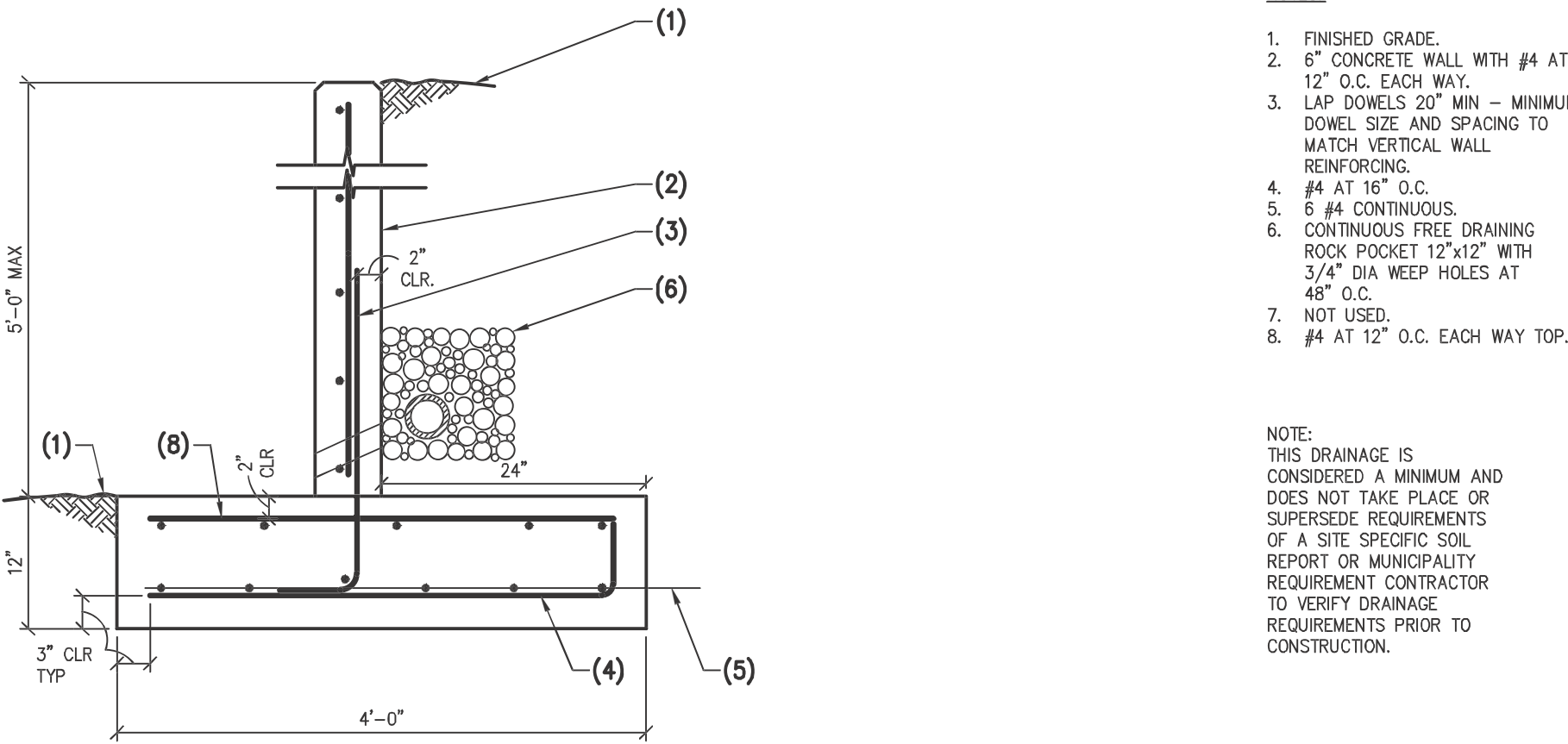
- CONCRETE:
 - DURING THE TAKING OF TEST SPECIMENS.
 - CONTINUOUS INSPECTION DURING THE PLACEMENT OF ALL REINFORCED CONCRETE, UNLESS NOTED OTHERWISE.
 - CONTINUOUS INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS (EXCEPTION: NO INSPECTION IS REQUIRED FOR PLACEMENT OF CONCRETE AROUND FOUNDATION ANCHOR BOLTS.)
 - NO INSPECTION IS REQUIRED FOR PLACEMENT OF SLAB ON GRADE CONCRETE. INSPECTION OF SLAB ON GRADE REINFORCING IS REQUIRED PER "REINFORCING STEEL" SECTION BELOW.
 - NO INSPECTION IS REQUIRED FOR THE PLACEMENT OF FOUNDATION CONCRETE (WHEN DESIGNED WITH 2,500PSI). INSPECTION OF FOUNDATION REINFORCING IS REQUIRED PER "REINFORCING STEEL" SECTION BELOW.
- REINFORCING STEEL: INSPECTION OF IN-PLACE REINFORCING FOR CONFORMANCE PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE FOR THE FOLLOWING:
 - REINFORCING FOR ALL CONCRETE REQUIRED TO HAVE INSPECTION NOTED ABOVE.
 - REINFORCING FOR CONCRETE FOUNDATIONS.
 - REINFORCING FOR SLABS ON GRADE.
 - REINFORCING FOR ALL MASONRY REQUIRED TO HAVE INSPECTION NOTED BELOW.

SPECIAL CASES:

- EXPANSION, EPOXY, ADHESIVE, AND SCREW ANCHORS: DURING THE PLACEMENT OF ALL ANCHORS SHOWN ON STRUCTURAL DRAWINGS, ADDITIONAL INSPECTIONS REQUIRED FOR REPAIR DETAILS SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
 - INSPECTION OF HOLE DIAMETER, HOLE DEPTH AND DRILL BIT CONFORMANCE.
 - INSPECTION OF HOLE CLEANING WITH WIRE BRUSH AND COMPRESSED AIR.
 - INSPECTION OF ANCHOR INSTALLATION USING SPECIFIED PRODUCT AND MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
 - INSPECTION OF EXPANSION ANCHORS SHALL INCLUDE THE VERIFICATION OF THE TIGHTENING TORQUE THAT IS SPECIFIED BY THE ANCHOR MANUFACTURER.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
- THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS, AND ALL DEVIATIONS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK. ALL REQUESTS FOR DEVIATIONS SHALL BE INITIATED BY THE CONTRACTOR VIA WRITTEN REQUEST FOR INFORMATION (RFI).
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR ACCESS TO ALL ITEMS REQUIRING SPECIAL INSPECTION. ACCESS SHALL BE PROVIDED BY IN-PLACE LADDERS, SCAFFOLDS, LIFTS AND/OR OTHER EQUIPMENT OPERATED BY THE CONTRACTOR'S PERSONNEL AS REQUIRED FOR SAFE OBSERVATION. THE SPECIAL INSPECTOR IS NOT RESPONSIBLE OR AUTHORIZED TO OPERATE CONTRACTOR'S EQUIPMENT.
- UPON COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF THEIR KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

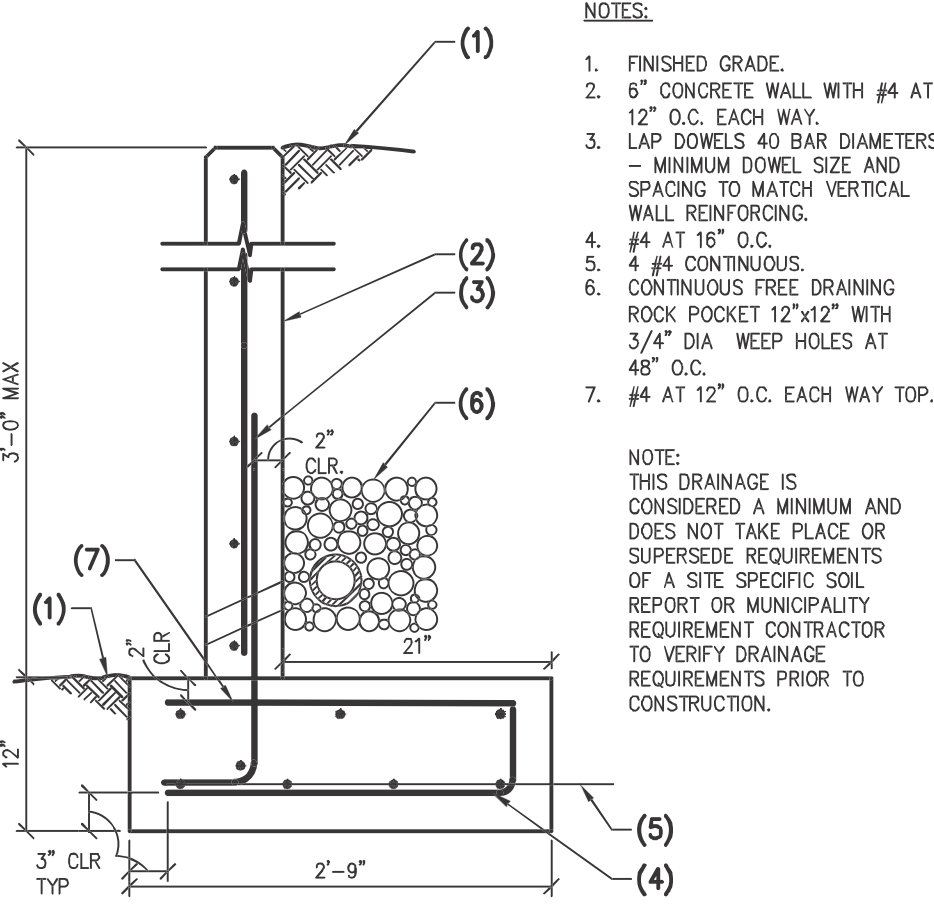


NOTES:

- FINISHED GRADE.
- 6" CONCRETE WALL WITH #4 AT 12" O.C. EACH WAY.
- LAP DOWELS 20" MIN - MINIMUM DOWEL SIZE AND SPACING TO MATCH VERTICAL WALL REINFORCING.
- #4 AT 18" O.C.
- 6 #4 CONTINUOUS.
- CONTINUOUS FREE DRAINING ROCK POCKET 12"x12" WITH 3/4" DIA WEEP HOLES AT 48" O.C.
- NOT USED.
- #4 AT 12" O.C. EACH WAY TOP.

NOTE: THIS DRAINAGE IS CONSIDERED A MINIMUM AND DOES NOT TAKE PLACE OR SUPERSEDE REQUIREMENTS OF A SITE SPECIFIC SOIL REPORT OR MUNICIPALITY REQUIREMENT CONTRACTOR TO VERIFY DRAINAGE REQUIREMENTS PRIOR TO CONSTRUCTION.

21-0528 NO SCALE

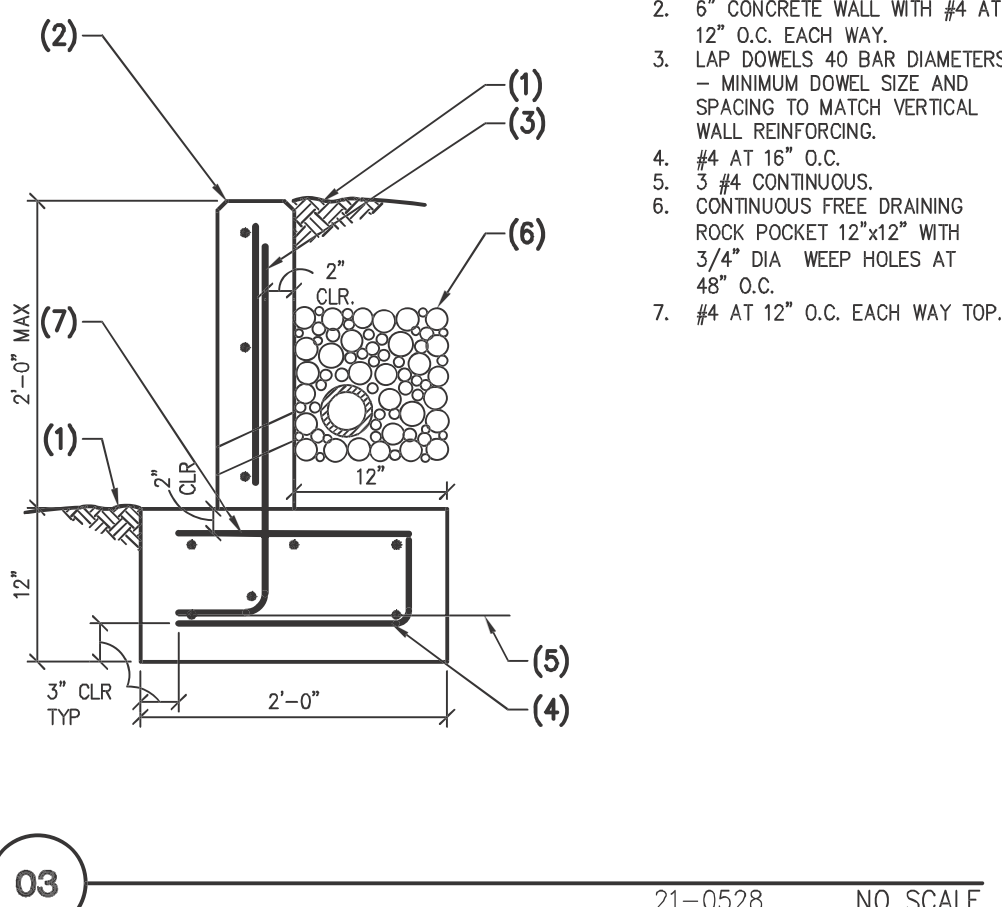


NOTES:

- FINISHED GRADE.
- 6" CONCRETE WALL WITH #4 AT 12" O.C. EACH WAY.
- LAP DOWELS 40 BAR DIAMETERS - MINIMUM DOWEL SIZE AND SPACING TO MATCH VERTICAL WALL REINFORCING.
- #4 AT 18" O.C.
- 6 #4 CONTINUOUS.
- CONTINUOUS FREE DRAINING ROCK POCKET 12"x12" WITH 3/4" DIA WEEP HOLES AT 48" O.C.
- #4 AT 12" O.C. EACH WAY TOP.

NOTE: THIS DRAINAGE IS CONSIDERED A MINIMUM AND DOES NOT TAKE PLACE OR SUPERSEDE REQUIREMENTS OF A SITE SPECIFIC SOIL REPORT OR MUNICIPALITY REQUIREMENT CONTRACTOR TO VERIFY DRAINAGE REQUIREMENTS PRIOR TO CONSTRUCTION.

21-0528 NO SCALE

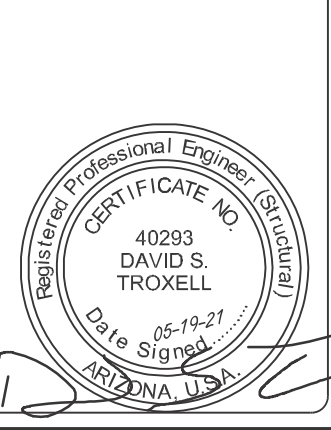


NOTES:

- FINISHED GRADE.
- 6" CONCRETE WALL WITH #4 AT 12" O.C. EACH WAY.
- LAP DOWELS 40 BAR DIAMETERS - MINIMUM DOWEL SIZE AND SPACING TO MATCH VERTICAL WALL REINFORCING.
- #4 AT 18" O.C.
- 5 #4 CONTINUOUS.
- CONTINUOUS FREE DRAINING ROCK POCKET 12"x12" WITH 3/4" DIA WEEP HOLES AT 48" O.C.
- #4 AT 12" O.C. EACH WAY TOP.

21-0528 NO SCALE

REVISIONS

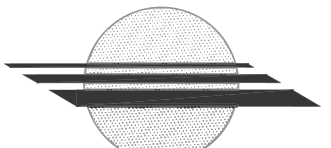


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CHANDLER, AZ

PROJECT

JOB NO. 21-0528

DRAWN ELG

ENGINEER NSC

CHECKED DST

DATE 04.22.2021

TITLE

GENERAL STRUCTURAL NOTES & DETAILS

SCALE AS NOTED

SHEET

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